

TAF SPECIAL REPORT

ALL PATENTS, ALL TYPES

JANUARY 1977 -- JUNE 1997



August 1997

U.S. PATENT AND TRADEMARK OFFICE
OFFICE OF ELECTRONIC INFORMATION PRODUCTS / TAF PROGRAM
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A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

**TAF Special Report
All Patents, All Types
1/1977 - 6/1997
Explanation of Data**

This Technology Assessment and Forecast (TAF) report profiles patent activity for all U.S. patents (design, plant, reissue, and utility patents, defensive publications, and statutory invention registrations) granted between January 1, 1977 and June 30, 1997. The source of the data used for this report is the TAF data base maintained by the Office of Electronic Information Products.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1984" column corresponds to the period January 1, 1977 through December 31, 1983.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILEDBUT NEVER ISSUED (ROUGHLY 40% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent "pendency") is now about 21 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **June 1997**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 1000 or more U.S. patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

* As of **June 30, 1997**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 95% complete for patent applications filed in 1993, 90% complete for applications filed in 1994, 53% complete for applications filed in 1995, and 6% complete for applications filed in 1996. They are essentially complete for applications filed prior to 1993.

Part A1

Patent Grants as Distributed By Year of Patent Grant

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Jun 30, 1997) ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Total
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Total	455645	72681	77274	77041	89598	84439	102690	99219	106842	107511	109890	113704	113955	121806	54958	1787253
U.S. Origin	281097	42195	43394	42177	47916	44728	54760	52976	57790	58791	61221	64345	64510	69419	30752	1016071
Foreign Origin	174548	30486	33880	34864	41682	39711	47930	46243	49052	48720	48669	49359	49445	52387	24206	771182
JAPAN	53189	11648	13351	13864	17294	16989	21106	20743	22402	23164	23411	23517	22871	24059	11095	318703
GERMANY	39862	6478	6906	7045	8093	7547	8614	7862	7984	7605	7186	6989	6874	7125	3219	139389
FRANCE	14569	2283	2516	2510	2990	2792	3299	3093	3249	3282	3155	2985	3010	3016	1443	54192
UNITED KINGDOM	17078	2421	2620	2638	2965	2754	3277	3017	3049	2632	2521	2469	2681	2674	1322	54118
CANADA	8326	1324	1451	1451	1770	1643	2124	2087	2303	2218	2231	2380	2447	2639	1252	35646
SWITZERLAND	8654	1219	1274	1257	1441	1299	1420	1347	1448	1294	1198	1244	1187	1192	510	25984
ITALY	5443	870	1013	1102	1285	1173	1425	1498	1388	1446	1453	1361	1242	1385	642	22726
SWEDEN	5744	829	954	1022	1089	891	926	885	831	727	742	800	914	971	429	17754
NETHERLANDS	4616	754	834	809	998	899	1162	1046	1075	974	944	998	894	886	405	17294
TAIWAN	453	118	199	269	411	536	688	861	1096	1253	1510	1814	2087	2419	943	14657
AUSTRALIA	2145	348	413	452	459	486	588	517	571	498	470	564	548	567	267	8893
SOUTH KOREA	97	34	50	55	105	126	183	290	449	586	830	1008	1240	1567	826	7446
AUSTRIA	1842	271	328	378	373	351	410	423	388	402	340	316	359	386	193	6760
BELGIUM	1731	272	253	266	323	328	377	352	366	371	377	392	419	516	241	6584
ISRAEL	754	167	185	197	257	249	339	311	321	350	358	388	432	525	279	5112
FINLAND	898	177	223	226	293	239	251	315	343	381	311	341	387	453	222	5060
DENMARK	1062	165	224	212	246	208	261	204	285	275	261	313	314	334	171	4535
U.S.S.R.	2447	216	149	117	121	97	162	177	182	67	67	57	12	16	3	3890
SPAIN	514	73	85	100	124	132	148	148	185	149	184	172	168	187	76	2445
HONG KONG	331	68	66	111	91	104	134	151	209	159	182	220	248	247	82	2403
NORWAY	629	106	106	89	163	137	141	119	119	121	127	130	138	150	64	2339
S. AFRICA	553	86	97	91	113	107	143	122	111	101	101	109	127	116	46	2023
HUNGARY	615	112	108	131	128	94	130	93	86	89	62	48	51	43	12	1802
NEW ZEALAND	325	65	50	64	80	70	75	65	50	60	51	54	60	78	42	1189
IRELAND	133	35	31	32	40	47	71	61	61	59	52	59	88	44	874	
MEXICO	279	43	35	37	54	45	41	34	42	45	50	52	45	46	16	864
CZECHOSLOVAKIA	420	33	54	35	47	33	34	39	27	18	15	20	15	9	8	807
BRAZIL	167	21	30	27	35	37	39	45	66	43	59	61	70	69	31	800
LUXEMBOURG	157	30	41	36	25	38	39	27	42	36	41	44	34	27	19	636
CHINA P. REP.	8	6	1	11	23	48	52	48	52	41	53	48	63	48	33	535
ARGENTINA	154	22	12	18	18	23	19	19	23	25	37	32	32	22	474	
SINGAPORE	22	4	10	4	12	8	22	16	25	35	44	59	61	97	41	460
INDIA	70	12	11	18	12	14	15	23	24	24	30	28	38	37	23	379
VENEZUELA	56	11	15	23	25	20	23	20	25	24	34	28	31	30	10	375
POLAND	207	15	11	14	13	8	14	17	8	5	8	9	8	16	6	359
BULGARIA	161	22	21	21	32	23	16	27	10	5	5	4	1	1	3	352
Others (113)	837	128	153	132	134	121	158	141	161	156	174	248	278	336	166	3323

Ownership:

U.S. Corporations	207622	32270	33524	31918	36296	33913	41402	39267	42887	44043	46094	48750	49049	53541	24520	765096
U.S. Government	8155	1238	1141	1145	1143	848	978	1064	1272	1225	1233	1310	1083	960	419	23214
U.S. Individuals	76618	10597	10886	11159	12701	11895	14958	15091	16234	15650	16100	16527	16813	17415	6980	269624
Foreign Corporations	134857	24382	27221	28050	34016	32681	39395	37995	40324	40930	41078	41540	41353	44190	20553	628565
Foreign Government	1879	440	485	480	556	454	448	427	473	474	442	300	250	260	119	7487
Foreign Individuals	26514	3754	4017	4289	4886	4648	5509	5375	5652	5189	4943	5277	5407	5440	2367	93267

----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Jun 30, 1997) -----

----- PERCENT OF PATENTS -----
 Pre 1984 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 Total

Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	62	58	56	55	53	53	53	54	55	56	57	57	57	56	57
Foreign Origin	38	42	44	45	47	47	47	46	45	44	43	43	43	44	43
JAPAN	12	16	17	18	19	20	21	21	22	21	21	20	20	20	18
GERMANY	9	9	9	9	9	9	8	8	7	7	6	6	6	6	8
FRANCE	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3
UNITED KINGDOM	4	3	3	3	3	3	3	3	2	2	2	2	2	2	3
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWITZERLAND	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
ITALY	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
SWEDEN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TAIWAN						1	1	1	1	1	2	2	2	2	1
AUSTRALIA		1	1	1	1	1	1	1							0
SOUTH KOREA									1	1	1	1	1	2	0
AUSTRIA															0
BELGIUM															0
ISRAEL													1		0
FINLAND															0
DENMARK															0
U.S.S.R.	1														0
SPAIN															0
HONG KONG															0
NORWAY															0
S. AFRICA															0
HUNGARY															0
NEW ZEALAND															0
IRELAND															0
MEXICO															0
CZECHOSLOVAKIA															0
BRAZIL															0
LUXEMBOURG															0
CHINA P. REP.															0
ARGENTINA															0
SINGAPORE															0
INDIA															0
VENEZUELA															0
POLAND															0
BULGARIA															0
Others (113)															0

Ownership:

U.S. Corporations	46	44	43	41	41	40	40	40	41	42	43	43	44	45	43
U.S. Government	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
U.S. Individuals	17	15	14	14	14	14	15	15	15	15	15	15	14	13	15
Foreign Corporations	30	34	35	36	38	39	38	38	38	37	37	36	36	37	35
Foreign Government		1	1	1	1	1								0	
Foreign Individuals	6	5	5	6	5	6	5	5	5	4	5	5	4	4	5

Part A2

Patent Grants as Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Jun 30, 1997) ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Total
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Total	614026	73658	78605	82165	89260	98289	104449	108331	108801	111183	113334	117920	78460	8772	1787253
U.S. Origin	370837	40512	42425	43539	47401	52243	55436	59455	60065	62466	64719	66399	45532	5042	1016071
Foreign Origin	243189	33146	36180	38626	41859	46046	49013	48876	48736	48717	48615	51521	32928	3730	771182
JAPAN	79862	13205	15204	16288	17992	20908	22916	23055	23659	23433	22363	23618	14577	1623	318703
GERMANY	53670	6529	7119	7390	7628	7876	8021	7766	7122	7137	6921	7160	4595	455	139389
FRANCE	19890	2373	2517	2733	2898	3152	3153	3238	3159	3062	3033	2970	1853	161	54192
UNITED KINGDOM	22672	2600	2589	2645	2939	2933	2997	2799	2493	2422	2564	2672	1642	151	54118
CANADA	11119	1473	1480	1563	1871	2096	2244	2167	2283	2262	2519	2527	1828	214	35646
SWITZERLAND	11270	1208	1229	1297	1269	1399	1444	1262	1230	1200	1198	1190	721	67	25984
ITALY	7420	1068	1073	1210	1359	1444	1386	1414	1362	1386	1294	1341	877	92	22726
SWEDEN	7721	968	923	873	839	818	837	758	777	787	901	959	536	57	17754
NETHERLANDS	6320	809	848	873	941	1050	1096	1032	943	938	943	922	523	56	17294
TAIWAN	774	226	326	459	605	693	890	1127	1362	1541	1896	2262	2055	441	14657
AUSTRALIA	3023	412	426	508	535	534	503	516	496	518	554	523	320	25	8893
SOUTH KOREA	193	54	98	109	187	258	445	558	833	948	1074	1524	1034	131	7446
AUSTRIA	2504	298	339	351	360	402	391	424	357	326	347	378	256	27	6760
BELGIUM	2268	271	281	343	328	341	372	387	358	364	406	463	355	47	6584
ISRAEL	1176	201	201	245	302	300	334	337	371	369	419	550	278	29	5112
FINLAND	1336	216	229	221	282	281	319	367	363	345	372	439	265	25	5060
DENMARK	1491	186	210	225	230	248	238	303	255	235	305	339	257	13	4535
U.S.S.R.	2831	95	96	110	140	151	160	138	82	52	19	9	7	3890	
SPAIN	682	106	98	134	133	147	167	166	160	180	165	198	100	9	2445
HONG KONG	514	89	95	128	122	124	179	165	159	204	208	220	161	35	2403
NORWAY	852	107	118	142	128	129	105	123	127	133	145	136	87	7	2339
S. AFRICA	748	95	93	101	136	98	132	104	92	101	145	123	50	5	2023
HUNGARY	876	118	111	102	102	98	89	86	68	46	45	38	23		1802
NEW ZEALAND	463	60	62	74	71	50	63	56	52	54	54	92	36	2	1189
IRELAND	207	28	37	48	58	66	59	58	60	52	62	92	42	5	874
MEXICO	358	36	41	48	34	43	45	37	51	55	40	49	23	4	864
CZECHOSLOVAKIA	503	38	40	39	26	40	33	17	15	19	21	9	6	1	807
BRAZIL	217	29	32	38	38	32	67	43	59	59	62	89	31	4	800
LUXEMBOURG	230	33	31	36	33	29	32	38	36	42	28	41	24	3	636
CHINA P.REP.	15	11	13	53	43	53	45	43	53	50	74	47	30	5	535
ARGENTINA	190	14	16	22	25	15	12	30	27	24	40	35	21	3	474
SINGAPORE	34	6	12	11	14	24	23	24	37	67	60	90	49	9	460
INDIA	92	15	15	18	10	21	27	26	22	35	36	37	24	1	379
VENEZUELA	83	18	18	26	25	15	20	30	31	37	30	27	14	1	375
POLAND	234	21	5	9	9	17	8	8	9	5	13	14	5	2	359
BULGARIA	211	9	30	23	17	24	15	9	5	3	1	2	3		352
Others (113)	1140	121	125	131	130	137	146	165	168	226	258	336	220	20	3323

Ownership:

U.S. Corporations	276329	31106	32341	32996	35654	39144	41768	44233	45201	47951	49431	50644	34618	3680	765096
U.S. Government	11044	1011	985	893	779	970	1096	1253	1219	1231	1199	899	560	75	23214
U.S. Individuals	99022	10370	11045	11667	13052	14529	15043	16323	15784	15473	16480	17351	12014	1471	269624
Foreign Corporations	189822	26705	29689	31657	34223	38142	40758	40798	41161	41300	40667	43202	27455	2988	628567
Foreign Government	2907	464	440	455	435	389	456	476	429	344	260	258	153	19	7485
Foreign Individuals	34902	4002	4105	4497	5117	5115	5328	5248	5007	4884	5297	5566	3660	539	93267

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Jun 30, 1997) ----

----- PERCENT OF PATENTED APPLICATIONS -----
 Pre 1984 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 Total

Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	60	55	54	53	53	53	53	55	55	56	57	56	58	57	57
Foreign Origin	40	45	46	47	47	47	47	45	45	44	43	44	42	43	43
JAPAN	13	18	19	20	20	21	22	21	22	21	20	20	19	19	18
GERMANY	9	9	9	9	9	8	8	7	7	6	6	6	6	5	8
FRANCE	3	3	3	3	3	3	3	3	3	3	3	3	2	2	3
UNITED KINGDOM	4	4	3	3	3	3	3	3	2	2	2	2	2	2	3
CANADA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWITZERLAND	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1
ITALY	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
SWEDEN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TAIWAN				1	1	1	1	1	1	1	2	2	3	5	1
AUSTRALIA				1	1	1	1								0
SOUTH KOREA							1	1	1	1	1	1	1	1	0
AUSTRIA															0
BELGIUM															0
ISRAEL															0
FINLAND															0
DENMARK															0
U.S.S.R.															0
SPAIN															0
HONG KONG															0
NORWAY															0
S. AFRICA															0
HUNGARY															0
NEW ZEALAND															0
IRELAND															0
MEXICO															0
CZECHOSLOVAKIA															0
BRAZIL															0
LUXEMBOURG															0
CHINA P.REP.															0
ARGENTINA															0
SINGAPORE															0
INDIA															0
VENEZUELA															0
POLAND															0
BULGARIA															0
Others (113)															0

Ownership:

U.S. Corporations	45	42	41	40	40	40	40	41	42	43	44	43	44	42	43
U.S. Government	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U.S. Individuals	16	14	14	14	15	15	14	15	15	14	15	15	15	17	15
Foreign Corporations	31	36	38	39	38	39	39	38	38	37	36	37	35	34	35
Foreign Government		1	1	1											0
Foreign Individuals	6	5	5	5	6	5	5	5	5	4	5	5	5	6	5

Part B

Ranked Listing of Organizations with Patent Grants

As Distributed By Year of Patent Grant

and As Distributed By Year of Patent Application

---- Technology Assessment and Forecast Report ----

Page B - 1

ALL PATENTS ALL TYPES REPORT

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

Pre	1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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GENERAL ELECTRIC COMPANY

Patents By Year of Grant:	5455	797	790	726	784	708	835	810	840	952	943	977	765	824	305	16511
Patents By Year of Application:	7035	735	706	694	722	801	844	902	884	943	854	839	503	49	0	16511

INTERNATIONAL BUSINESS MACHINES CORPORATION

Patents By Year of Grant:	3196	622	592	631	633	575	653	644	714	874	1139	1356	1468	1928	872	15897
Patents By Year of Application:	4663	527	536	583	571	657	742	925	1241	1481	1175	1551	1129	116	0	15897

HITACHI, LTD

Patents By Year of Grant:	2867	607	708	751	878	926	1075	935	951	969	950	989	924	970	441	14941
Patents By Year of Application:	4487	700	751	844	953	1062	1092	1029	1019	892	855	789	434	34	0	14941

CANON KABUSHIKI KAISHA

Patents By Year of Grant:	1610	439	439	553	886	776	999	923	916	1191	1109	1161	1169	1626	665	14462
Patents By Year of Application:	2591	615	713	847	736	877	1025	1061	1209	1245	1210	1334	924	75	0	14462

TOSHIBA CORPORATION

Patents By Year of Grant:	1613	572	719	720	845	783	997	957	1079	1088	1072	1002	1009	957	431	13844
Patents By Year of Application:	3112	644	692	714	852	1031	1067	1101	1202	962	888	978	550	51	0	13844

MITSUBISHI DENKI KABUSHIKI KAISHA

Patents By Year of Grant:	614	289	368	371	522	558	794	899	952	979	946	986	975	939	408	10600
Patents By Year of Application:	1305	381	400	499	651	912	975	987	1094	970	903	895	562	66	0	10600

U.S. PHILIPS CORPORATION

Patents By Year of Grant:	2548	457	491	537	713	596	769	666	693	554	462	429	527	501	230	10173
Patents By Year of Application:	3642	502	561	624	584	689	699	609	506	451	440	537	297	32	0	10173

EASTMAN KODAK COMPANY

Patents By Year of Grant:	1762	265	227	238	305	441	595	736	879	790	1011	900	784	796	343	10072
Patents By Year of Application:	2208	179	304	353	477	707	843	919	926	1018	759	725	520	134	0	10072

MOTOROLA, INC.

Patents By Year of Grant:	1299	237	278	350	429	364	416	420	637	691	791	960	1108	1163	527	9670
Patents By Year of Application:	1910	267	299	400	360	380	606	713	834	902	1030	1158	726	85	0	9670

AT&T CORP.

Patents By Year of Grant:	2876	517	596	482	428	401	407	450	504	457	470	615	654	523	24	9404
Patents By Year of Application:	4098	436	398	375	341	347	521	520	475	588	699	481	122	3	0	9404

FUJI PHOTO FILM CO., LTD

Patents By Year of Grant:	1253	278	380	453	495	590	902	784	761	671	660	571	523	524	224	9069
Patents By Year of Application:	1860	470	532	588	715	815	768	687	668	581	509	496	334	46	0	9069

---- Technology Assessment and Forecast Report ----

ALL PATENTS ALL TYPES REPORT

Page B - 2

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

Pre

1984

1984

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TOTAL

SIEMENS AKTIENGESELLSCHAFT

Patents By Year of Grant:	2799	411	422	412	542	566	665	511	479	402	374	381	429	418	214	9025
Patents By Year of Application:	3718	369	457	533	531	549	465	462	379	407	403	428	287	37	0	9025

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Patents By Year of Grant:	1392	264	273	240	337	299	398	361	485	627	762	800	921	887	351	8397
Patents By Year of Application:	1975	266	284	307	317	360	471	612	774	811	863	864	444	49	0	8397

BAYER AKTIENGESELLSCHAFT

Patents By Year of Grant:	2893	367	360	390	371	444	472	501	493	475	443	345	328	323	142	8347
Patents By Year of Application:	3606	352	422	409	387	449	520	483	392	409	346	310	231	31	0	8347

E. I. DU PONT DE NEMOURS AND COMPANY

Patents By Year of Grant:	2319	350	344	337	423	379	446	485	607	609	573	492	445	397	134	8340
Patents By Year of Application:	2957	323	388	400	409	447	581	644	554	502	444	394	273	24	0	8340

NEC CORPORATION

Patents By Year of Grant:	642	127	172	238	383	360	493	447	441	465	611	918	1009	1054	498	7858
Patents By Year of Application:	1057	251	311	321	377	467	479	436	619	898	766	1200	581	95	0	7858

WESTINGHOUSE ELECTRIC CORP.

Patents By Year of Grant:	2706	351	373	399	654	434	454	438	356	370	306	262	196	136	36	7471
Patents By Year of Application:	3517	458	454	394	394	446	406	403	316	233	210	189	49	2	0	7471

SONY CORPORATION

Patents By Year of Grant:	1049	214	255	238	352	319	341	279	354	463	637	747	805	936	400	7389
Patents By Year of Application:	1618	226	300	294	283	333	356	422	620	756	717	850	556	58	0	7389

XEROX CORPORATION

Patents By Year of Grant:	1973	183	277	226	229	283	285	255	354	474	564	615	554	706	266	7244
Patents By Year of Application:	2440	239	227	203	254	267	336	485	558	574	621	600	377	63	0	7244

GENERAL MOTORS CORPORATION

Patents By Year of Grant:	1875	331	293	300	390	385	418	383	441	402	441	334	282	298	140	6713
Patents By Year of Application:	2420	271	290	377	346	399	408	398	455	440	339	319	222	29	0	6713

DOW CHEMICAL COMPANY

Patents By Year of Grant:	1902	329	342	374	473	428	433	401	333	323	330	270	230	197	70	6435
Patents By Year of Application:	2524	316	509	454	364	401	388	315	289	270	258	210	125	12	0	6435

CIBA-GEIGY CORPORATION

Patents By Year of Grant:	2135	290	307	244	287	281	346	410	417	319	332	302	277	273	136	6356
Patents By Year of Application:	2698	253	276	294	324	387	360	351	317	290	293	296	201	16	0	6356

ALL PATENTS ALL TYPES REPORT

----- Technology Assessment and Forecast Report -----

Page B - 3

----- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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HONDA GIKEN KOGYO KABUSHIKI KAISHA (HONDA MOTOR CO., LTD.)

Patents By Year of Grant:	527	220	332	300	408	394	379	402	258	209	260	247	254	302	185	4677
Patents By Year of Application:	1110	270	353	374	390	354	338	190	232	269	247	291	226	33	0	4677

RICOH COMPANY, LTD.

Patents By Year of Grant:	740	130	154	220	223	195	285	305	328	374	294	312	282	300	176	4318
Patents By Year of Application:	1088	171	202	196	192	317	348	391	312	323	291	297	171	19	0	4318

UNITED STATES OF AMERICA, ARMY

Patents By Year of Grant:	1681	187	205	256	254	152	200	170	201	168	184	203	191	155	90	4297
Patents By Year of Application:	2151	197	176	192	144	156	197	171	172	214	202	177	124	24	0	4297

UNITED STATES OF AMERICA, DEPARTMENT OF ENERGY

Patents By Year of Grant:	1340	329	293	258	253	240	233	240	215	250	182	205	119	71	31	4259
Patents By Year of Application:	1995	264	217	223	187	216	247	228	225	174	165	72	46	0	0	4259

PHILLIPS PETROLEUM COMPANY

Patents By Year of Grant:	1914	280	292	224	207	153	142	132	158	171	195	149	101	91	34	4243
Patents By Year of Application:	2432	257	241	147	116	126	128	182	169	170	113	89	70	3	0	4243

ALLIED-SIGNAL INC.

Patents By Year of Grant:	887	166	307	251	286	245	276	247	250	321	246	274	198	190	57	4201
Patents By Year of Application:	1374	254	275	210	231	249	271	277	310	259	212	160	103	16	0	4201

TOYOTA JIDOSHA K.K.

Patents By Year of Grant:	1301	239	257	238	396	315	283	162	156	153	146	133	157	160	92	4188
Patents By Year of Application:	1770	238	317	368	250	173	157	163	141	155	152	156	119	29	0	4188

SHELL OIL COMPANY

Patents By Year of Grant:	1068	183	206	203	161	214	376	268	273	278	234	238	173	139	59	4073
Patents By Year of Application:	1383	210	200	194	269	297	262	277	260	244	206	167	92	12	0	4073

HEWLETT-PACKARD COMPANY

Patents By Year of Grant:	360	64	57	77	131	153	245	221	328	352	351	438	492	523	245	4037
Patents By Year of Application:	496	90	81	158	219	224	339	337	402	414	437	480	315	45	0	4037

HUGHES AIRCRAFT COMPANY

Patents By Year of Grant:	649	105	89	98	183	216	299	250	349	296	329	412	326	273	62	3936
Patents By Year of Application:	883	129	156	220	218	275	287	309	349	412	340	241	109	8	0	3936

FORD MOTOR COMPANY

Patents By Year of Grant:	821	157	189	126	153	145	170	164	181	231	291	327	338	383	163	3839
Patents By Year of Application:	1149	121	146	118	187	156	148	215	251	305	397	350	255	41	0	3839

---- Technology Assessment and Forecast Report ----

ALL PATENTS ALL TYPES REPORT

Page B - 5

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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UNITED TECHNOLOGIES CORPORATION

Patents By Year of Grant:	1076	176	170	194	207	190	234	152	165	238	207	203	215	160	56	3643
Patents By Year of Application:	1498	175	147	172	212	196	168	178	226	215	189	195	69	3	0	3643

OLYMPUS OPTICAL CO., LTD.

Patents By Year of Grant:	953	201	221	153	148	183	200	183	168	203	214	238	214	224	103	3606
Patents By Year of Application:	1409	140	129	139	174	188	179	209	235	227	264	213	97	3	0	3606

EXXON RESEARCH + ENGINEERING CO.

Patents By Year of Grant:	1625	256	274	226	181	107	127	129	136	111	109	127	90	72	35	3605
Patents By Year of Application:	2114	249	193	116	119	96	125	129	119	103	107	78	50	7	0	3605

UNISYS CORPORATION

Patents By Year of Grant:	1742	281	288	184	138	99	95	83	99	87	51	80	112	134	43	3516
Patents By Year of Application:	2350	188	124	69	101	90	106	69	62	71	109	114	57	6	0	3516

IMPERIAL CHEMICAL INDUSTRIES PLC

Patents By Year of Grant:	1274	138	132	114	112	164	159	182	183	192	233	131	94	68	30	3206
Patents By Year of Application:	1562	121	121	138	154	175	212	158	196	169	89	64	44	3	0	3206

MINOLTA CAMERA CO., LTD.

Patents By Year of Grant:	517	93	82	72	106	174	354	377	320	283	241	162	115	166	67	3129
Patents By Year of Application:	699	69	106	116	257	405	383	291	269	183	131	131	82	7	0	3129

ROCKWELL INTERNATIONAL CORPORATION

Patents By Year of Grant:	1125	204	209	163	158	134	124	115	154	126	137	151	117	122	46	3085
Patents By Year of Application:	1636	106	128	128	111	118	150	127	147	135	131	103	61	4	0	3085

PROCTER + GAMBLE COMPANY

Patents By Year of Grant:	728	107	101	81	142	99	157	136	166	190	173	220	233	354	168	3055
Patents By Year of Application:	932	104	115	117	145	129	148	169	170	187	245	310	253	31	0	3055

AMERICAN CYANAMID COMPANY

Patents By Year of Grant:	1320	118	132	95	114	104	116	144	107	133	136	149	106	108	54	2936
Patents By Year of Application:	1570	144	98	112	118	102	87	136	123	130	139	91	85	1	0	2936

MERCK + CO., INC.

Patents By Year of Grant:	991	135	107	103	124	125	174	134	152	164	223	165	126	127	67	2917
Patents By Year of Application:	1241	115	127	108	139	123	133	163	200	225	123	138	77	5	0	2917

HONEYWELL INC.

Patents By Year of Grant:	791	133	134	156	172	148	215	169	171	138	145	171	185	129	56	2913
Patents By Year of Application:	1095	159	123	149	147	202	179	150	157	156	184	130	76	6	0	2913

----- Technology Assessment and Forecast Report -----

ALL PATENTS ALL TYPES REPORT

Page B - 6

----- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ----- Ranked List of Organizations with 1000 or More Patents -----

Pre

1984

1984

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TOTAL

UNITED STATES OF AMERICA, AIR FORCE

Patents By Year of Grant:	917	181	143	187	204	136	157	114	149	145	139	138	86	104	40	2840
Patents By Year of Application:	1281	162	175	162	130	133	114	154	133	126	110	89	61	10	0	2840

KONICA CORPORATION

Patents By Year of Grant:	394	146	151	122	105	124	176	212	230	210	230	233	179	160	73	2745
Patents By Year of Application:	689	98	118	111	155	183	198	265	224	201	185	185	114	19	0	2745

CATERPILLAR INC.

Patents By Year of Grant:	1506	57	77	46	57	47	61	53	81	63	117	109	149	209	90	2722
Patents By Year of Application:	1626	46	53	56	45	47	55	90	92	118	134	194	147	19	0	2722

UNION CARBIDE CORPORATION

Patents By Year of Grant:	1521	231	251	210	160	145	132	43	8	0	0	0	0	0	0	2701
Patents By Year of Application:	1974	200	185	139	107	64	32	0	0	0	0	0	0	0	0	2701

TEXACO INC.

Patents By Year of Grant:	1093	196	183	140	146	96	126	115	100	107	111	88	107	65	9	2682
Patents By Year of Application:	1430	155	131	128	111	104	95	113	112	102	93	80	28	0	0	2682

AMP INCORPORATED

Patents By Year of Grant:	725	147	132	129	220	205	245	226	267	236	132	3	0	1	0	2668
Patents By Year of Application:	989	125	167	202	180	201	249	229	213	112	0	1	0	0	0	2668

BOEING COMPANY

Patents By Year of Grant:	695	144	127	138	169	168	215	193	197	184	106	80	97	99	50	2662
Patents By Year of Application:	1059	136	150	139	169	204	202	157	128	86	90	63	77	2	0	2662

MONSANTO CO.

Patents By Year of Grant:	1298	139	100	111	94	99	90	85	129	129	104	77	75	82	45	2657
Patents By Year of Application:	1552	112	119	77	65	94	126	114	94	86	81	70	59	8	0	2657

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Patents By Year of Grant:	1123	132	99	63	73	68	162	120	99	103	115	103	109	97	29	2495
Patents By Year of Application:	1307	90	67	81	127	137	94	99	98	124	95	124	50	2	0	2495

PPG INDUSTRIES INC.

Patents By Year of Grant:	1177	137	128	126	119	118	112	100	94	70	84	61	53	52	33	2464
Patents By Year of Application:	1411	114	126	130	121	103	88	86	80	48	63	57	33	4	0	2464

SAMSUNG ELECTRONICS CO., LTD.

Patents By Year of Grant:	0	1	1	1	7	8	30	63	148	255	358	417	439	492	244	2464
Patents By Year of Application:	2	1	8	5	22	54	182	239	382	399	399	446	287	38	0	2464

----- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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AMOCO CORPORATION

Patents By Year of Grant:	740	133	85	90	110	167	200	193	158	187	147	88	58	67	33	2456
Patents By Year of Application:	956	105	130	118	177	205	180	172	154	88	69	57	39	6	0	2456

EATON CORPORATION

Patents By Year of Grant:	570	128	152	127	123	104	141	143	115	141	135	149	166	182	58	2434
Patents By Year of Application:	861	101	110	91	132	127	122	134	134	153	185	177	94	13	0	2434

BRISTOL-MYERS SQUIBB COMPANY

Patents By Year of Grant:	852	91	110	109	126	121	124	125	124	130	124	103	100	104	64	2407
Patents By Year of Application:	1037	125	129	112	121	108	119	144	113	116	120	93	60	10	0	2407

NIPPONDENSO CO., LTD.

Patents By Year of Grant:	395	156	137	122	184	124	116	76	76	86	123	165	189	311	146	2406
Patents By Year of Application:	669	128	173	125	113	82	82	75	107	162	207	246	221	16	0	2406

UNITED STATES OF AMERICA, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Patents By Year of Grant:	640	137	144	93	122	93	127	128	151	151	166	160	122	104	39	2377
Patents By Year of Application:	905	100	105	93	96	145	139	137	170	156	165	107	54	5	0	2377

SUMITOMO CHEMICAL COMPANY, LIMITED

Patents By Year of Grant:	676	91	103	88	98	123	147	114	146	133	147	164	139	138	55	2362
Patents By Year of Application:	873	85	96	115	133	130	141	121	134	155	141	159	71	8	0	2362

NIKON CORPORATION

Patents By Year of Grant:	368	90	73	69	122	84	69	79	87	109	136	122	231	433	223	2295
Patents By Year of Application:	534	77	89	80	58	69	92	89	142	126	173	352	376	38	0	2295

THOMSON-CSF

Patents By Year of Grant:	804	116	174	121	131	129	104	114	138	107	90	84	90	52	27	2281
Patents By Year of Application:	1172	122	85	99	92	104	130	120	99	93	73	58	34	0	0	2281

GOODYEAR TIRE + RUBBER COMPANY

Patents By Year of Grant:	740	128	103	77	88	95	100	112	115	103	129	150	109	113	71	2233
Patents By Year of Application:	942	102	94	83	94	107	107	121	107	131	95	128	102	20	0	2233

GTE PRODUCTS CORPORATION

Patents By Year of Grant:	884	114	110	137	144	144	176	128	155	94	86	41	8	2	0	2223
Patents By Year of Application:	1100	114	138	146	127	167	138	114	107	63	7	2	0	0	0	2223

PIONEER ELECTRONIC CORPORATION

Patents By Year of Grant:	244	75	98	88	112	99	167	154	180	235	220	174	148	101	60	2155
Patents By Year of Application:	449	88	107	60	131	179	177	231	206	188	144	115	67	13	0	2155

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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SUMITOMO ELECTRIC INDUSTRIES CO., LTD.

Patents By Year of Grant:	190	41	61	81	93	98	143	126	132	180	233	233	233	210	88	2142
Patents By Year of Application:	301	85	91	79	111	146	134	147	202	269	199	236	134	8	0	2142

HOFFMANN-LA ROCHE INC.

Patents By Year of Grant:	964	78	74	84	89	59	96	78	78	73	88	89	104	106	43	2103
Patents By Year of Application:	1137	70	80	69	75	93	85	79	60	93	89	103	66	4	0	2103

ELI LILLY AND COMPANY

Patents By Year of Grant:	723	81	107	86	88	68	75	74	66	63	79	79	148	245	109	2091
Patents By Year of Application:	903	118	97	62	52	64	61	67	64	98	144	132	219	10	0	2091

CHEVRON RESEARCH & TECHNOLOGY CO.

Patents By Year of Grant:	856	141	149	161	134	92	76	59	77	85	74	64	24	5	5	2002
Patents By Year of Application:	1166	142	116	109	79	44	62	101	65	71	36	8	2	1	0	2002

UPJOHN COMPANY

Patents By Year of Grant:	1451	113	66	66	26	15	31	29	23	31	30	24	24	33	16	1978
Patents By Year of Application:	1628	65	32	24	21	23	27	24	31	28	30	24	20	1	0	1978

AISIN SEIKI KABUSHIKI KAISHA

Patents By Year of Grant:	419	108	95	113	134	140	158	133	162	131	94	71	62	91	44	1955
Patents By Year of Application:	632	96	116	114	150	150	131	156	112	80	71	79	57	11	0	1955

MERCEDES-BENZ AG

Patents By Year of Grant:	494	79	81	82	93	101	136	109	110	104	125	96	108	144	69	1931
Patents By Year of Application:	662	66	71	101	102	116	118	106	110	110	107	147	97	18	0	1931

MAZDA MOTOR CORPORATION

Patents By Year of Grant:	176	47	69	86	143	158	141	142	204	204	180	135	109	59	30	1883
Patents By Year of Application:	289	70	124	133	147	146	158	213	214	145	129	92	22	1	0	1883

ASAHI KOGAKU KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	297	46	57	46	32	44	59	107	155	178	227	217	156	182	70	1873
Patents By Year of Application:	396	58	22	30	52	90	155	198	217	217	156	178	92	12	0	1873

DIGITAL EQUIPMENT CORPORATION

Patents By Year of Grant:	72	10	22	25	22	47	128	136	149	227	281	276	190	167	72	1824
Patents By Year of Application:	134	10	21	39	143	136	218	204	233	261	197	146	72	10	0	1824

HOECHST CELANESE CORPORATION

Patents By Year of Grant:	413	94	67	66	71	109	134	190	128	134	114	93	78	72	33	1796
Patents By Year of Application:	572	44	92	107	128	141	149	137	120	97	76	72	56	5	0	1796

---- Technology Assessment and Forecast Report ----

Page B - 9

ALL PATENTS ALL TYPES REPORT

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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BROTHER KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	73	20	47	37	66	81	161	181	263	217	167	156	123	137	62	1791
Patents By Year of Application:	142	37	51	74	145	159	193	273	183	175	126	145	78	10	0	1791

POLAROID CORPORATION

Patents By Year of Grant:	855	102	114	85	92	70	90	56	40	39	42	40	56	62	30	1773
Patents By Year of Application:	1058	114	75	65	76	69	41	33	52	30	44	69	38	9	0	1773

FMC CORPORATION

Patents By Year of Grant:	698	99	108	72	76	70	70	79	81	77	82	71	54	70	31	1738
Patents By Year of Application:	890	79	70	79	66	68	81	73	95	58	70	64	41	4	0	1738

CORNING INCORPORATED

Patents By Year of Grant:	683	89	86	50	54	76	59	83	60	82	102	108	74	88	43	1737
Patents By Year of Application:	852	42	65	56	62	65	77	73	92	107	96	97	51	2	0	1737

OLIN CORPORATION

Patents By Year of Grant:	634	115	117	84	60	62	81	76	106	118	73	74	47	57	15	1719
Patents By Year of Application:	830	109	76	60	63	62	93	123	83	72	63	50	35	0	0	1719

ITT CORPORATION

Patents By Year of Grant:	742	109	86	106	77	33	57	57	63	64	61	81	85	69	22	1712
Patents By Year of Application:	957	110	62	23	46	45	62	67	71	69	89	71	38	2	0	1712

UNIVERSITY OF CALIFORNIA, THE REGENTS OF

Patents By Year of Grant:	203	60	42	55	66	65	89	67	85	79	119	170	215	268	124	1707
Patents By Year of Application:	333	62	60	65	77	69	90	93	113	127	226	238	145	9	0	1707

ABBOTT LABORATORIES

Patents By Year of Grant:	460	42	38	34	45	47	43	70	87	138	140	149	119	191	91	1694
Patents By Year of Application:	540	49	35	47	55	62	100	96	139	134	138	141	152	6	0	1694

DEERE + COMPANY

Patents By Year of Grant:	489	116	110	77	107	86	102	96	95	73	90	64	72	65	26	1668
Patents By Year of Application:	714	68	69	104	84	92	84	90	81	84	72	65	57	4	0	1668

NORTHERN TELECOM LIMITED

Patents By Year of Grant:	386	88	106	101	134	118	111	87	82	73	75	90	83	106	28	1668
Patents By Year of Application:	590	100	119	98	95	84	99	81	73	64	116	85	58	6	0	1668

INTEL CORPORATION

Patents By Year of Grant:	96	24	16	15	24	33	49	45	57	73	125	206	271	423	209	1666
Patents By Year of Application:	140	8	22	25	52	49	50	75	111	202	296	367	217	52	0	1666

---- Technology Assessment and Forecast Report ----

ALL PATENTS ALL TYPES REPORT

Page B - 10

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

Pre

1984 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 TOTAL

WARNER-LAMBERT COMPANY

Patents By Year of Grant:	340	56	77	108	122	114	120	114	125	103	86	85	85	69	42	1646
Patents By Year of Application:	462	91	128	128	117	113	101	119	83	71	86	83	61	3	0	1646

W. R. GRACE & CO.-CONN.

Patents By Year of Grant:	458	58	46	45	49	63	111	107	122	132	123	116	87	86	41	1644
Patents By Year of Application:	551	51	48	59	98	120	118	114	135	102	111	66	69	2	0	1644

SANYO ELECTRIC CO., LTD.

Patents By Year of Grant:	167	42	40	80	110	93	104	121	146	126	126	128	124	134	81	1622
Patents By Year of Application:	269	60	109	82	86	121	139	143	119	106	146	152	79	11	0	1622

ATLANTIC RICHFIELD COMPANY

Patents By Year of Grant:	502	131	140	111	142	78	74	66	62	59	67	70	61	38	9	1610
Patents By Year of Application:	735	140	100	110	58	65	74	66	61	65	66	45	25	0	0	1610

PFIZER INC.

Patents By Year of Grant:	552	90	72	73	67	63	79	84	91	81	67	77	76	83	49	1604
Patents By Year of Application:	696	80	62	69	57	83	92	97	66	82	72	94	50	4	0	1604

DOW CORNING CORPORATION

Patents By Year of Grant:	274	53	55	71	58	82	105	124	136	144	93	132	107	108	44	1586
Patents By Year of Application:	351	63	64	84	83	112	143	140	111	102	115	116	77	25	0	1586

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Patents By Year of Grant:	349	47	35	45	63	65	101	109	101	126	112	100	105	119	53	1530
Patents By Year of Application:	441	53	69	78	84	102	130	109	104	91	108	117	42	2	0	1530

VICTOR COMPANY OF JAPAN, LIMITED

Patents By Year of Grant:	325	113	139	132	145	88	62	54	91	82	79	68	51	62	34	1525
Patents By Year of Application:	624	127	86	95	56	55	85	98	73	74	53	60	37	2	0	1525

NATIONAL SEMICONDUCTOR CORPORATION

Patents By Year of Grant:	264	41	36	35	41	34	60	59	95	103	119	149	186	202	95	1519
Patents By Year of Application:	343	37	32	27	51	58	85	110	110	155	153	195	147	16	0	1519

HENKEL KOMMANDITGESELLSCHAFT AUF AKTIEN(HENKEL KGAA)

Patents By Year of Grant:	311	52	68	58	90	104	132	122	85	50	69	101	100	108	34	1484
Patents By Year of Application:	413	66	91	93	128	142	98	38	58	90	87	115	59	6	0	1484

NCR CORPORATION

Patents By Year of Grant:	382	57	60	63	110	80	126	95	103	89	101	95	54	39	26	1480
Patents By Year of Application:	513	60	88	82	105	106	117	102	112	92	57	17	19	10	0	1480

----- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ----- Ranked List of Organizations with 1000 or More Patents -----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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BRIDGESTONE CORPORATION

Patents By Year of Grant:	300	56	63	65	73	87	101	89	96	97	126	109	95	85	31	1473
Patents By Year of Application:	422	65	68	68	100	111	89	100	114	118	73	76	65	4	0	1473

AIR PRODUCTS AND CHEMICALS, INC.

Patents By Year of Grant:	250	60	80	61	87	70	119	100	119	91	110	125	73	78	33	1456
Patents By Year of Application:	361	67	66	87	96	114	99	103	101	125	87	87	52	11	0	1456

FUJI XEROX CO., LTD.

Patents By Year of Grant:	94	92	103	52	34	41	43	58	73	116	137	159	182	173	92	1449
Patents By Year of Application:	305	42	30	26	54	62	66	136	127	157	173	143	115	13	0	1449

COMMISSARIAT A L'ENERGIE ATOMIQUE

Patents By Year of Grant:	453	61	96	91	126	90	82	72	49	70	52	62	40	69	35	1448
Patents By Year of Application:	646	81	94	76	73	92	48	62	61	55	50	68	36	6	0	1448

COLGATE-PALMOLIVE COMPANY

Patents By Year of Grant:	448	76	55	48	57	55	94	71	82	67	84	80	84	84	43	1428
Patents By Year of Application:	583	43	53	71	62	85	83	80	93	57	71	86	55	6	0	1428

TRW INC.

Patents By Year of Grant:	475	47	59	69	77	56	74	52	40	50	82	104	96	98	39	1418
Patents By Year of Application:	602	59	59	57	61	63	46	43	83	111	86	69	73	6	0	1418

HALLIBURTON CO.

Patents By Year of Grant:	266	100	81	95	120	70	68	53	60	61	74	162	88	94	25	1417
Patents By Year of Application:	427	91	98	87	49	67	68	50	76	131	131	82	56	4	0	1417

BAXTER INTERNATIONAL INC.

Patents By Year of Grant:	490	69	46	48	74	67	92	69	78	63	68	79	62	74	32	1411
Patents By Year of Application:	638	49	47	77	74	71	79	61	61	67	79	69	38	1	0	1411

PITNEY-BOWES, INC.

Patents By Year of Grant:	348	52	71	66	65	49	111	87	75	102	92	82	98	73	30	1401
Patents By Year of Application:	496	60	65	56	81	83	80	98	90	82	86	97	26	1	0	1401

LUCAS INDUSTRIES PUBLIC LTD. COMPANY

Patents By Year of Grant:	511	92	96	75	83	65	90	72	74	40	40	33	48	52	25	1396
Patents By Year of Application:	703	64	58	74	80	77	67	60	44	35	39	56	33	6	0	1396

TEKTRONIX INC.

Patents By Year of Grant:	202	36	88	91	137	173	143	91	80	67	60	43	63	72	32	1378
Patents By Year of Application:	352	88	96	164	119	111	96	68	64	60	50	53	52	5	0	1378

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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SHIN ETSU CHEMICAL CO., LTD.

Patents By Year of Grant:	137	12	28	40	50	65	52	64	114	134	166	160	142	132	48	1344
Patents By Year of Application:	167	30	45	60	52	61	105	145	123	154	144	156	96	6	0	1344

ROHM AND HAAS COMPANY

Patents By Year of Grant:	527	37	32	33	22	18	32	32	49	65	118	131	117	97	30	1340
Patents By Year of Application:	619	22	23	26	20	23	47	73	95	109	116	94	70	3	0	1340

CHRYSLER MOTORS CORPORATION

Patents By Year of Grant:	176	7	19	44	79	66	91	120	93	52	75	130	130	189	66	1337
Patents By Year of Application:	197	24	56	73	70	117	94	90	59	111	135	170	122	19	0	1337

SEIKO EPSON CORPORATION

Patents By Year of Grant:	0	0	0	30	46	34	50	60	122	160	188	166	162	200	112	1330
Patents By Year of Application:	20	21	33	33	44	71	130	165	164	177	182	170	116	4	0	1330

ALPS ELECTRIC CO., LTD.

Patents By Year of Grant:	149	54	64	100	153	198	138	92	86	80	48	36	44	42	32	1316
Patents By Year of Application:	289	99	90	175	152	102	97	72	62	46	41	50	36	5	0	1316

AGFA-GEVAERT, AG

Patents By Year of Grant:	687	70	46	55	31	44	64	52	53	33	36	39	39	19	13	1281
Patents By Year of Application:	800	37	48	33	62	55	46	36	35	42	30	34	22	1	0	1281

CASIO COMPUTER CO. LTD.

Patents By Year of Grant:	118	32	24	36	83	88	73	90	143	111	87	114	115	126	41	1281
Patents By Year of Application:	182	41	90	81	72	74	148	110	85	132	84	111	66	5	0	1281

RAYTHEON COMPANY

Patents By Year of Grant:	461	83	58	48	81	47	60	80	85	86	72	52	45	10	9	1277
Patents By Year of Application:	647	55	58	51	52	65	87	62	90	38	48	18	5	1	0	1277

SUNDSTRAND CORPORATION

Patents By Year of Grant:	122	31	53	80	89	82	132	158	196	120	66	57	31	45	11	1273
Patents By Year of Application:	217	64	84	87	98	156	227	130	68	49	49	30	13	1	0	1273

B. F. GOODRICH CO.

Patents By Year of Grant:	460	94	70	54	60	75	78	57	73	69	59	47	30	33	11	1270
Patents By Year of Application:	619	54	62	54	71	75	95	51	43	60	39	27	16	4	0	1270

L'OREAL S.A.

Patents By Year of Grant:	264	39	46	34	54	53	94	86	86	78	86	76	79	126	69	1270
Patents By Year of Application:	372	42	43	58	80	87	72	71	81	72	77	113	95	7	0	1270

---- Technology Assessment and Forecast Report ----

Page B - 13

ALL PATENTS ALL TYPES REPORT

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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MITSUI TOATSU CHEMICALS INC.

Patents By Year of Grant:	183	33	36	29	44	64	78	95	88	130	139	118	96	79	36	1248
Patents By Year of Application:	249	32	38	61	77	82	115	119	106	118	103	84	58	6	0	1248

LEVER BROS. CO., DIVISION OF CONOPCO, INC.

Patents By Year of Grant:	392	72	74	61	60	48	51	67	62	63	54	67	76	81	17	1245
Patents By Year of Application:	525	68	65	40	56	60	68	62	63	45	76	53	63	1	0	1245

TAKEDA CHEMICAL INDUSTRIES LTD.

Patents By Year of Grant:	308	54	55	57	57	58	79	87	50	66	93	68	70	99	41	1242
Patents By Year of Application:	440	56	49	57	69	72	84	61	73	69	80	84	45	3	0	1242

ETHYL CORPORATION

Patents By Year of Grant:	294	84	105	77	48	51	88	109	118	95	88	51	8	12	8	1236
Patents By Year of Application:	455	73	82	49	53	100	118	97	93	69	26	6	12	3	0	1236

OKI ELECTRIC INDUSTRY CO., LTD.

Patents By Year of Grant:	127	13	26	32	59	79	123	95	109	125	129	106	91	81	30	1225
Patents By Year of Application:	161	38	55	58	98	121	109	107	155	94	87	87	50	5	0	1225

FANUC LTD.

Patents By Year of Grant:	2	20	68	76	104	78	135	125	129	125	102	87	70	73	29	1223
Patents By Year of Application:	116	57	86	80	97	125	163	125	103	83	62	77	46	3	0	1223

ADVANCED MICRO DEVICES, INC.

Patents By Year of Grant:	19	15	32	53	92	82	87	83	83	71	85	86	129	179	119	1215
Patents By Year of Application:	74	61	92	93	54	74	93	100	55	89	120	153	139	18	0	1215

HARRIS CORP.

Patents By Year of Grant:	307	46	51	55	89	51	74	74	60	60	62	69	71	93	52	1214
Patents By Year of Application:	433	46	71	55	58	65	65	61	73	81	50	91	61	4	0	1214

YAZAKI CORP.

Patents By Year of Grant:	9	6	0	5	11	34	77	124	132	164	130	119	115	180	105	1211
Patents By Year of Application:	15	5	3	25	72	119	147	96	143	118	141	183	127	17	0	1211

YOSHIDA KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	329	63	70	87	76	63	81	58	92	73	50	68	66	15	1	1192
Patents By Year of Application:	472	59	60	71	65	60	93	76	57	49	91	35	4	0	0	1192

AMERICAN HOME PRODUCTS CORPORATION

Patents By Year of Grant:	401	40	51	45	48	70	86	68	48	56	68	31	60	96	16	1184
Patents By Year of Application:	488	33	48	70	74	51	66	45	61	58	45	70	72	3	0	1184

----- Technology Assessment and Forecast Report -----

ALL PATENTS ALL TYPES REPORT

Page B - 14

----- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ----- Ranked List of Organizations with 1000 or More Patents -----

Pre

1984 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 TOTAL

NIPPON STEEL CORP.

Patents By Year of Grant:	303	57	42	53	48	54	78	57	63	75	80	79	85	72	33	1179
Patents By Year of Application:	401	45	44	55	58	61	50	96	90	76	78	70	51	4	0	1179

MURATA MANUFACTURING CO., LTD.

Patents By Year of Grant:	113	33	41	48	52	69	62	69	91	84	65	103	118	151	78	1177
Patents By Year of Application:	178	51	43	63	55	76	81	81	70	96	118	154	98	13	0	1177

STAUFFER CHEMICAL COMPANY

Patents By Year of Grant:	689	95	104	75	95	69	36	0	2	0	1	0	0	0	0	1166
Patents By Year of Application:	872	88	80	73	39	12	1	1	0	0	0	0	0	0	0	1166

INSTITUT FRANCAIS DU PETROLE

Patents By Year of Grant:	301	42	44	35	55	63	64	72	82	56	71	89	73	69	35	1151
Patents By Year of Application:	392	38	60	58	52	69	71	68	63	84	82	66	47	1	0	1151

SINGER COMPANY

Patents By Year of Grant:	843	123	84	39	34	24	1	0	0	0	0	0	0	0	0	1148
Patents By Year of Application:	1025	57	29	25	9	3	0	0	0	0	0	0	0	0	0	1148

AGENCY OF INDUSTRIAL SCIENCE & TECHNOLOGY

Patents By Year of Grant:	226	49	64	53	60	80	96	92	97	72	62	49	57	56	25	1138
Patents By Year of Application:	329	59	46	78	91	95	94	75	65	50	49	63	40	4	0	1138

KIMBERLY-CLARK CORPORATION

Patents By Year of Grant:	124	39	33	60	95	84	95	70	50	60	49	65	84	147	81	1136
Patents By Year of Application:	198	57	86	97	83	64	62	66	44	60	82	122	107	8	0	1136

SANDOZ LTD.

Patents By Year of Grant:	434	56	45	42	51	54	60	36	52	41	47	44	45	85	40	1132
Patents By Year of Application:	547	43	45	49	49	48	43	46	49	40	46	61	64	2	0	1132

INTERNATIONAL FLAVORS + FRAGRANCES INC

Patents By Year of Grant:	541	95	104	76	39	25	31	41	39	25	26	30	27	19	5	1123
Patents By Year of Application:	671	97	65	36	25	32	34	31	31	17	37	28	15	4	0	1123

NATIONAL RESEARCH DEVELOPMENT CORPORATION

Patents By Year of Grant:	483	71	72	77	84	48	83	59	58	60	19	3	1	0	1	1119
Patents By Year of Application:	641	77	60	72	61	65	58	53	27	2	1	1	1	0	0	1119

ZENITH ELECTRONICS CORPORATION

Patents By Year of Grant:	366	56	56	66	92	80	60	59	59	61	46	36	31	33	18	1119
Patents By Year of Application:	491	64	73	66	72	51	57	60	59	49	27	28	19	3	0	1119

---- Organizational Patenting

(Granted: Jan 01, 1977 - Jun 30, 1997) ---- Ranked List of Organizations with 1000 or More Patents ----

	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL
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YAMAHA CORPORATION

Patents By Year of Grant:	0	0	0	0	0	8	87	112	121	120	157	136	140	162	74	1117
Patents By Year of Application:	1	0	1	9	74	101	154	155	116	133	143	132	83	15	0	1117

ALUMINUM COMPANY OF AMERICA

Patents By Year of Grant:	270	52	62	76	80	74	62	60	67	52	65	58	51	53	17	1099
Patents By Year of Application:	366	78	83	78	68	63	63	54	62	51	56	48	28	1	0	1099

SMITHKLINE BECKMAN CORPORATION

Patents By Year of Grant:	558	78	46	29	55	56	62	34	14	31	19	27	37	27	11	1084
Patents By Year of Application:	678	45	47	49	61	31	29	17	30	33	23	26	15	0	0	1084

BECTON, DICKINSON AND COMPANY

Patents By Year of Grant:	200	27	36	43	62	39	77	56	65	58	58	87	72	100	72	1052
Patents By Year of Application:	274	57	51	43	55	62	46	65	52	71	104	91	77	4	0	1052

BENDIX CORPORATION(NOW ALLIED-SIGNAL INC.)

Patents By Year of Grant:	877	146	25	0	0	0	0	0	0	0	0	0	0	0	0	1048
Patents By Year of Application:	1044	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1048

MITSUBISHI JUKOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	195	44	27	51	88	59	59	65	62	85	85	69	65	61	24	1039
Patents By Year of Application:	259	47	70	72	54	53	79	60	101	80	58	57	47	2	0	1039

UNION OIL COMPANY OF CALIFORNIA

Patents By Year of Grant:	255	53	69	69	59	70	75	57	91	88	54	47	28	11	8	1034
Patents By Year of Application:	383	66	78	63	54	72	79	71	64	51	33	16	4	0	0	1034

NGK INSULATORS LTD.

Patents By Year of Grant:	87	19	44	30	57	64	117	84	79	92	111	73	65	67	43	1032
Patents By Year of Application:	141	35	58	51	88	88	102	88	96	93	68	65	56	3	0	1032

MITA INDUSTRIAL COMPANY LTD.

Patents By Year of Grant:	96	34	42	43	42	34	46	60	89	105	128	95	89	94	29	1026
Patents By Year of Application:	172	32	40	41	48	47	87	118	98	112	101	72	52	6	0	1026

CARRIER CORPORATION

Patents By Year of Grant:	297	49	64	39	34	45	53	51	75	61	55	64	67	51	19	1024
Patents By Year of Application:	396	39	40	46	46	46	56	67	63	52	65	66	39	3	0	1024

ASAHI KASEI KOGYO KABUSHIKI KAISHA

Patents By Year of Grant:	371	74	70	49	51	54	52	38	33	35	57	54	35	29	17	1019
Patents By Year of Application:	506	56	53	51	48	41	49	34	52	39	33	38	14	5	0	1019

Technology Assessment and Forecast Report																	Page B - 16	
Organizational Patenting (Granted: Jan 01, 1977 - Jun 30, 1997)																	Ranked List of Organizations with 1000 or More Patents	
	Pre 1984	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	TOTAL		
CONOCO, INC.																		
Patents By Year of Grant:	460	68	54	42	30	64	54	52	55	50	37	19	13	11	2	1011		
Patents By Year of Application:	588	39	29	39	46	63	42	52	52	28	14	13	5	1	0	1011		
MILES INC.																		
Patents By Year of Grant:	274	35	44	38	50	50	53	53	37	103	109	90	62	6	4	1008		
Patents By Year of Application:	367	36	67	44	53	39	47	64	105	85	66	33	2	0	0	1008		
UNITED STATES OF AMERICA, HEALTH & HUMAN SERVICES																		
Patents By Year of Grant:	178	30	35	28	34	27	34	38	50	76	85	108	97	117	63	1000		
Patents By Year of Application:	250	35	29	34	37	54	67	76	88	107	98	90	32	3	0	1000		
Other Organizations (133857)																		
Patents By Year of Grant:	215124	34878	37800	37781	44057	41915	50602	48580	52401	53368	54656	57083	58039	63110	29764	879158		
Patents By Year of Application:	292019	36227	38705	40846	44392	48464	51326	53171	53366	55961	58404	60996	40972	4309	0	879158		